

TAKING COOPERATION FORWARD

FH Vorarlberg Dornbirn - 05.10.2021

Experience Exchange Workshop III Dornbirn Pilot

Bojana Suzic

PILOT DORNBIRN ADVANCED MANUFACTURING AND GREEN INNOVATION



Main Objectives:

- Analyze open business models and services in advanced manufacturing & green innovation
- Set up circular economy advanced manufacturing framework
- Knowledge base and guidelines for implementing CE strategy in AM



ADVANCED MANUFACTURING VORARLBERG

"the use of innovative technologies to create existing products and the creation of new products, including production activities that depend on information, automation, computation, software, sensing, and networking"

Circular Economy Hub Vorarlberg

Thematic Scope:

Additive Manufacturing Advanced Materials Robotics/Automation/Artificial Intelligence Nanotechnology Network/IT integration Digital Innovation



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PILOT ACTIVITIES



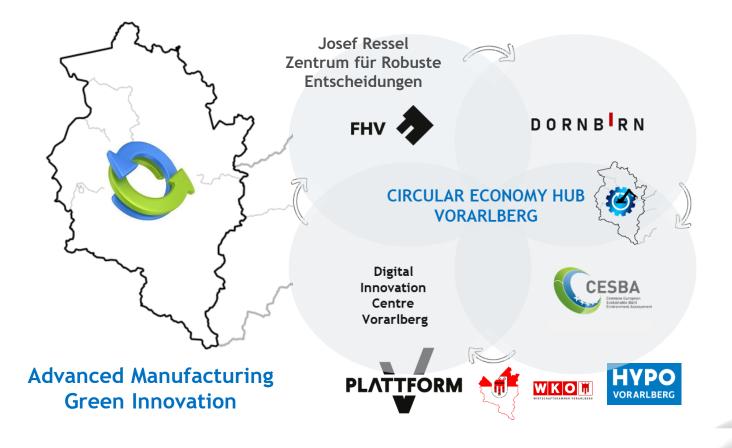
- A1 CE, Open Business Models, Advanced Manufacturing: State-of-the-Art; 07/20
- A2 Best Practice Analysis and Feasibility Study; 11/20
- A3 Circular Economy Advanced Manufacturing Framework; 07/21
- A4 Circular Economy Open Business Model for Advanced Manufacturing: Test Scenarios; 11/21



- A5 Circular Economy Open Business Model for Advanced Manufacturing: Evaluation; 12/21
- A6 Circular Economy Open Business Model for Advanced Manufacturing: Recommendations & Guidelines; 01/22
- A7 Communication and Dissemination; 03/22
- A8 Monitoring and evaluation; 03/22

CIRUCLAR ECONOMY HUB VORARLBERG





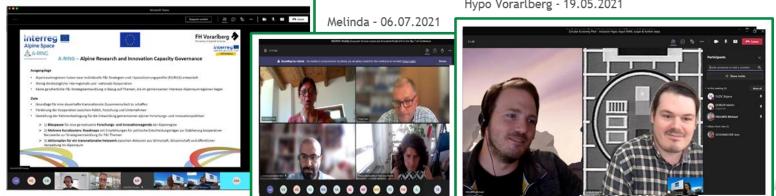
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PILOT ACTIVITIES





A-Ring - 17.06.2021

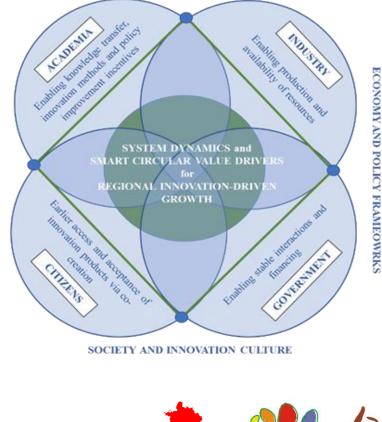


Josef Ressel Zentrum for Robust Decisions: Hypo Vorarlberg - 19.05.2021

QUADRUPLE HELIX MODEL FOR CIRCULAR ECONOMY TRANSITION



TECHNOLOGY AND SMART SERVICES



Quadruple Helix Model

- Workshops, Participatory events, Student projects:

Collaborative business model for circular economy-based advanced manufacturing

Fields: Wood and textile industry, Food industry, Mobility & Electric vehicles SMEs, Urban innovation, Smart Factories, Digital Innovation

Scope: Lean production technologies, Supply chain integration, Advanced planning and scheduling







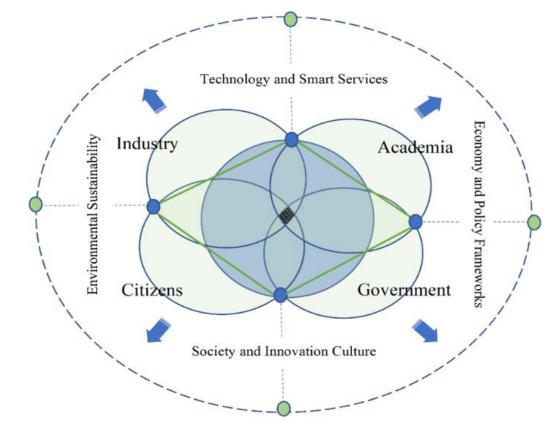


ENVIRONMENTAL SUSTAINABILITY

SYSTEM DYNAMICS FOR CIRCULAR ECONOMY DRIVEN REGIONAL GROWTH



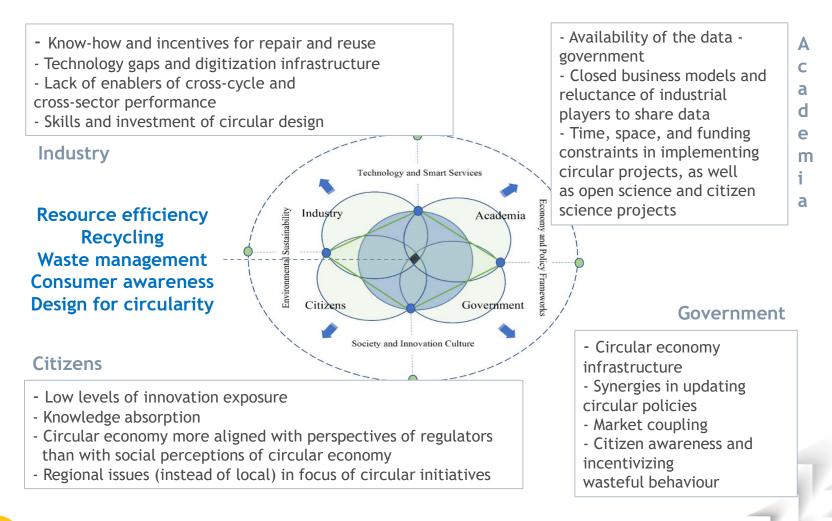
Advanced Manufacturing



Financing Circular Business Models

BARRIERS IN CIRCULAR TRANSITION







- Cross-sectoral collaboration
- Lack of enablers of cross-cycle and cross-sector performance
- Internal organizational culture of financing inst. mainly linear
- Skills and investment of circular design
- Standardization of CE and ESG metrics
- Trust between partners and transparency along value chain
- Synergies in updating circular policies

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Bojana Suzic FHV CITYCIRCLE

- www.interreg-central.eu/CITYCIRCLE
- bojana.suzic@fhv.at
- +43 66 77 821 701
- f facebook.com/citycircle